BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: VIDYARANYAAPURA

Name of Work: Package - 1 Includes 5 Works of Rs. 300.00 Lakhs. 1) Construction of RCC Drain and Covering Slab at BEL 2nd Block 1st, 2nd, 4th, 5th Cross in Ward No. 10, (Doddabommasandra). 2) Construction of Roads and Drains at BEL 2nd Block 1st, 2nd, 3rd and 4th Main Road in Ward No. 10, (Doddabommasandra). 3) Improvements to Roads and Drains at Chamundeshwari Layout Cross Road in Ward No. 10, (Doddabommasandra). 4) Improvements to Roads and Drains at Nanjappa Layout Cross Road in Ward No. 10, (Doddabommasandra). 5) Improvements to Roads and Drains at Nanjappa Layout Main Road in Ward No. 10, (Doddabommasandra).

Job Code: 010-20-000035, 010-20-000036, 010-20-000037, 010-20-000038, 010-20-000039

Estimated Cost: Rs. 300.00 Lakhs
Approved Cost: Rs. 278.70 Lakhs
Modified Cost: Rs. 278.70 Lakhs

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Modified Estimate for the Work: Package - 1 Includes 5 Works of Rs. 300.00 Lakhs. 1) Construction of RCC Drain and Covering Slab at BEL 2nd Block 1st, 2nd, 4th, 5th Cross in Ward No. 10, (Doddabommasandra). 2) Construction of Roads and Drains at BEL 2nd Block 1st, 2nd, 3rd and 4th Main Road in Ward No. 10, (Doddabommasandra). 3) Improvements to Roads and Drains at Chamundeshwari Layout Cross Road in Ward No. 10, (Doddabommasandra). 4) Improvements to Roads and Drains at Nanjappa Layout Cross Road in Ward No. 10, (Doddabommasandra). 5) Improvements to Roads and Drains at Nanjappa Layout Main Road in Ward No. 10, (Doddabommasandra).**

	010-20-000035, 010-20-000036, 010-20-000037, 010-20-000038, 101-20-000039	P-3297 P-3296				Estimate Cost:		27870908.00	
Sl. No	**Description**	**Unit**	**No.**	**L**	**B**	**D**	**Qty**	**Rate**	**Amount**
1	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **Page No. 143 / Item No. 19.1, PWD SR 2018-19**	Cum							
	BEL Layout 2nd Block 2nd Cross Majathindi Road		2	133.00	0.45	0.45	53.87		
	BEL Layout 2nd Block 2nd Cross		2	187.00	0.45	0.45	75.74		
	BEL Layout 2nd Block 4th Cross		2	120.00	0.45	0.45	48.60		
	BEL Layout 2nd Block 5th Cross		2	175.00	0.45	0.45	70.88		
	BEL Layout 2nd Block 4th Main Balance		2	145.00	0.45	0.45	58.73		
	BEL Layout 2nd Block 1st Main		2	225.00	0.45	0.45	91.13		
	BEL Layout 2nd Block 2nd Main		2	220.00	0.45	0.45	89.10		
	BEL Layout 2nd Block 3rd Main		2	230.00	0.45	0.45	93.15		
	BEL Layout 2nd Block 4th Main		2	123.00	0.45	0.45	49.82		
	BEL Quoters		1	1540.00	0.45	0.45	311.85		
	Venkatagiriyappa Layout 3rd Cross		2	150.00	0.45	0.45	60.75		
	Venkatagiriyappa Layout 4th Cross		2	145.00	0.45	0.45	58.73		
			2	50.00	0.45	0.45	20.25		
	Venkatagiriyappa Layout 5th Cross		2	137.00	0.45	0.45	55.49		
			2	48.00	0.45	0.45	19.44		
	Cross Road		1	17.00	0.45	0.45	3.44		
			1	26.00	0.45	0.45	5.27		
	Nanjappa Layout 12th Cross		2	108.00	0.45	0.45	43.74		
	Nanjappa Layout 11th Cross		2	107.00	0.45	0.45	43.34		
	Nanjappa Layout 10th Cross		2	110.00	0.45	0.45	44.55		
	Nanjappa Layout 9th Cross		2	108.00	0.45	0.45	43.74		
	Nanjappa Layout 8th Cross		2	110.00	0.45	0.45	44.55		
	Nanjappa Layout 7th Cross		2	108.00	0.45	0.45	43.74		
							1429.85	256.07	**366142.00**
2	Removing and refixing stone slabs of drains and pointing in CM (1:3) **Page No. 27 / Item No. 5.33 PWD SR 2018-19**	Sqm							
	BS Slab Drain								
	BEL Layout 2nd Block 2nd Cross Majathindi Road		2	133.00		1.35	359.10		
	BEL Layout 2nd Block 2nd Cross		2	187.00		1.35	504.90		
	BEL Layout 2nd Block 4th Cross		2	120.00		1.35	324.00		
	BEL Layout 2nd Block 5th Cross		2	175.00		1.35	472.50		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	BEL Layout 2nd Block 4th Main Balance		2	145.00		1.35	391.50		
	BEL Layout 2nd Block 1st Main		2	225.00		1.35	607.50		
	BEL Layout 2nd Block 2nd Main		2	220.00		1.35	594.00		
	BEL Layout 2nd Block 3rd Main		2	230.00		1.35	621.00		
	BEL Layout 2nd Block 4th Main		2	123.00		1.35	332.10		
	BEL Quoters		1	1540.00		1.35	2079.00		
	Venkatagiriyappa Layout 3rd Cross		2	150.00		1.35	405.00		
	Venkatagiriyappa Layout 4th Cross		2	145.00		1.35	391.50		
			2	50.00		1.35	135.00		
	Venkatagiriyappa Layout 5th Cross		2	137.00		1.35	369.90		
			2	48.00		1.35	129.60		
	Cross Road		1	17.00		1.35	22.95		
			1	26.00		1.35	35.10		
	Nanjappa Layout 12th Cross		2	108.00		1.35	291.60		
	Nanjappa Layout 11th Cross		2	107.00		1.35	288.90		
	Nanjappa Layout 10th Cross		2	110.00		1.35	297.00		
	Nanjappa Layout 9th Cross		2	108.00		1.35	291.60		
	Nanjappa Layout 8th Cross		2	110.00		1.35	297.00		
	Nanjappa Layout 7th Cross		2	108.00		1.35	291.60		
							9532.35	116.87	**1114046.00**
3	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete **Page No. 27 / Item No. 5.31.1 PWD SR 2018-19**	Sqm							
	Damaged Slabs & Missing Slabs 25%		Vide Item No. 2				2383.09		
							2383.09	779.10	**1856663.00**
4	KSRRB M2100-10. Providing and laying **Plain cement concrete of mix 1:3:6 with with OPC cement @ 220kgs, with crushed 40mm** and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @ 0.56cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days complete as per specifications MORTH Specification No. 2100 **Item No. 27.18 Page No. 222, PWD SR 2018-19**	cum							
	Bottom Concrete								
	BEL Layout 2nd Block 2nd Cross Majathindi Road		2x2	133.00	0.30	0.15	23.94		
	BEL Layout 2nd Block 2nd Cross		2x2	187.00	0.30	0.15	33.66		
	BEL Layout 2nd Block 4th Cross		2x2	120.00	0.30	0.15	21.60		
	BEL Layout 2nd Block 5th Cross		2x2	175.00	0.30	0.15	31.50		
	BEL Layout 2nd Block 4th Main Balance		2x2	145.00	0.30	0.15	26.10		
	BEL Layout 2nd Block 1st Main		2x2	225.00	0.30	0.15	40.50		
	BEL Layout 2nd Block 2nd Main		2x2	220.00	0.30	0.15	39.60		
	BEL Layout 2nd Block 3rd Main		2x2	230.00	0.30	0.15	41.40		
	BEL Layout 2nd Block 4th Main		2x2	123.00	0.30	0.15	22.14		
	BEL Quoters		2	1540.00	0.30	0.15	138.60		
	Venkatagiriyappa Layout 3rd Cross		2x2	150.00	0.30	0.15	27.00		
	Venkatagiriyappa Layout 4th Cross		2x2	145.00	0.30	0.15	26.10		
			2x2	50.00	0.30	0.15	9.00		
	Venkatagiriyappa Layout 5th Cross		2x2	137.00	0.30	0.15	24.66		
			2x2	48.00	0.30	0.15	8.64		
	Cross Road		2	17.00	0.30	0.15	1.53		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
			2	26.00	0.30	0.15	2.34		
	Nanjappa Layout 12th Cross		2x2	108.00	0.30	0.15	19.44		
	Nanjappa Layout 11th Cross		2x2	107.00	0.30	0.15	19.26		
	Nanjappa Layout 10th Cross		2x2	110.00	0.30	0.15	19.80		
	Nanjappa Layout 9th Cross		2x2	108.00	0.30	0.15	19.44		
	Nanjappa Layout 8th Cross		2x2	110.00	0.30	0.15	19.80		
	Nanjappa Layout 7th Cross		2x2	108.00	0.30	0.15	19.44		
							635.49	5693.00	**3617845.00**
5	KSRB 5-14 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 **Page No. 27 / Item No. 5.26.2, PWD SR 2018-19**	Sqm							
	BEL Layout 2nd Block 2nd Cross Majathindi Road		2x2	133.00		0.40	212.80		
	BEL Layout 2nd Block 2nd Cross		2x2	187.00		0.40	299.20		
	BEL Layout 2nd Block 4th Cross		2x2	120.00		0.40	192.00		
	BEL Layout 2nd Block 5th Cross		2x2	175.00		0.40	280.00		
	BEL Layout 2nd Block 4th Main Balance		2x2	145.00		0.40	232.00		
	BEL Layout 2nd Block 1st Main		2x2	225.00		0.40	360.00		
	BEL Layout 2nd Block 2nd Main		2x2	220.00		0.40	352.00		
	BEL Layout 2nd Block 3rd Main		2x2	230.00		0.40	368.00		
	BEL Layout 2nd Block 4th Main		2x2	123.00		0.40	196.80		
	BEL Quoters		2	1540.00		0.40	1232.00		
	Venkatagiriyappa Layout 3rd Cross		2x2	150.00		0.40	240.00		
	Venkatagiriyappa Layout 4th Cross		2x2	145.00		0.40	232.00		
			2x2	50.00		0.40	80.00		
	Venkatagiriyappa Layout 5th Cross		2x2	137.00		0.40	219.20		
			2x2	48.00		0.40	76.80		
	Cross Road		2	17.00		0.40	13.60		
			2	26.00		0.40	20.80		
	Nanjappa Layout 12th Cross		2x2	108.00		0.40	172.80		
	Nanjappa Layout 11th Cross		2x2	107.00		0.40	171.20		
	Nanjappa Layout 10th Cross		2x2	110.00		0.40	176.00		
	Nanjappa Layout 9th Cross		2x2	108.00		0.40	172.80		
	Nanjappa Layout 8th Cross		2x2	110.00		0.40	176.00		
	Nanjappa Layout 7th Cross		2x2	108.00		0.40	172.80		
							5648.80	1028.41	**5809282.00**

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
6	Providing and laying in position **plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size** graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, for coping. Including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page. No. 255 / Item No.34.11 of PWD SR 2018-19**	cum							
	Coping								
BEL Layout 2nd Block 2nd Cross Majathindi Road			2x2	133.00	0.20	0.10	10.64		
	BEL Layout 2nd Block 2nd Cross		2x2	187.00	0.20	0.10	14.96		
	BEL Layout 2nd Block 4th Cross		2x2	120.00	0.20	0.10	9.60		
	BEL Layout 2nd Block 5th Cross		2x2	175.00	0.20	0.10	14.00		
	BEL Layout 2nd Block 4th Main Balance		2x2	145.00	0.20	0.10	11.60		
	BEL Layout 2nd Block 1st Main		2x2	225.00	0.20	0.10	18.00		
	BEL Layout 2nd Block 2nd Main		2x2	220.00	0.20	0.10	17.60		
	BEL Layout 2nd Block 3rd Main		2x2	230.00	0.20	0.10	18.40		
	BEL Layout 2nd Block 4th Main		2x2	123.00	0.20	0.10	9.84		
	BEL Quoters		2	1540.00	0.20	0.10	61.60		
	Venkatagiriyappa Layout 3rd Cross		2x2	150.00	0.20	0.10	12.00		
	Venkatagiriyappa Layout 4th Cross		2x2	145.00	0.20	0.10	11.60		
			2x2	50.00	0.20	0.10	4.00		
	Venkatagiriyappa Layout 5th Cross		2x2	137.00	0.20	0.10	10.96		
			2x2	48.00	0.20	0.10	3.84		
	Cross Road		2	17.00	0.20	0.10	0.68		
			2	26.00	0.20	0.10	1.04		
	Nanjappa Layout 12th Cross		2x2	108.00	0.20	0.10	8.64		
	Nanjappa Layout 11th Cross		2x2	107.00	0.20	0.10	8.56		
	Nanjappa Layout 10th Cross		2x2	110.00	0.20	0.10	8.80		
	Nanjappa Layout 9th Cross		2x2	108.00	0.20	0.10	8.64		
	Nanjappa Layout 8th Cross		2x2	110.00	0.20	0.10	8.80		
	Nanjappa Layout 7th Cross		2x2	108.00	0.20	0.10	8.64		
	Ramp								
BEL Layout 2nd Block 2nd Cross Majathindi Road			2	133.00	0.30	0.10	7.98		
	BEL Layout 2nd Block 2nd Cross		2	187.00	0.30	0.10	11.22		
	BEL Layout 2nd Block 4th Cross		2	120.00	0.30	0.10	7.20		
	BEL Layout 2nd Block 5th Cross		2	175.00	0.30	0.10	10.50		
	BEL Layout 2nd Block 4th Main Balance		2	145.00	0.30	0.10	8.70		
	BEL Layout 2nd Block 1st Main		2	225.00	0.30	0.10	13.50		
	BEL Layout 2nd Block 2nd Main		2	220.00	0.30	0.10	13.20		
	BEL Layout 2nd Block 3rd Main		2	230.00	0.30	0.10	13.80		
	BEL Layout 2nd Block 4th Main		2	123.00	0.30	0.10	7.38		
	Nanjappa Layout 12th Cross		2	108.00	0.30	0.10	6.48		
	Nanjappa Layout 11th Cross		2	107.00	0.30	0.10	6.42		
	Nanjappa Layout 10th Cross		2	110.00	0.30	0.10	6.60		
	Nanjappa Layout 9th Cross		2	108.00	0.30	0.10	6.48		
	Nanjappa Layout 8th Cross		2	110.00	0.30	0.10	6.60		
	Nanjappa Layout 7th Cross		2	108.00	0.30	0.10	6.48		
	Vent Concrete								
BEL Layout 2nd Block 2nd Cross Majathindi Road			2	133.00	0.45	0.10	11.97		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	BEL Layout 2nd Block 2nd Cross		2	187.00	0.45	0.10	16.83		
	BEL Layout 2nd Block 4th Cross		2	120.00	0.45	0.10	10.80		
	BEL Layout 2nd Block 5th Cross		2	175.00	0.45	0.10	15.75		
	BEL Layout 2nd Block 4th Main Balance		2	145.00	0.45	0.10	13.05		
	BEL Layout 2nd Block 1st Main		2	225.00	0.45	0.10	20.25		
	BEL Layout 2nd Block 2nd Main		2	220.00	0.45	0.10	19.80		
	BEL Layout 2nd Block 3rd Main		2	230.00	0.45	0.10	20.70		
	BEL Layout 2nd Block 4th Main		2	123.00	0.45	0.10	11.07		
	BEL Quoters		1	1540.00	0.45	0.10	69.30		
	Venkatagiriyappa Layout 3rd Cross		2	150.00	0.45	0.10	13.50		
	Venkatagiriyappa Layout 4th Cross		2	145.00	0.45	0.10	13.05		
			2	50.00	0.45	0.10	4.50		
	Venkatagiriyappa Layout 5th Cross		2	137.00	0.45	0.10	12.33		
			2	48.00	0.45	0.10	4.32		
	Cross Road		1	17.00	0.45	0.10	0.77		
			1	26.00	0.45	0.10	1.17		
	Nanjappa Layout 12th Cross		2	108.00	0.45	0.10	9.72		
	Nanjappa Layout 11th Cross		2	107.00	0.45	0.10	9.63		
	Nanjappa Layout 10th Cross		2	110.00	0.45	0.10	9.90		
	Nanjappa Layout 9th Cross		2	108.00	0.45	0.10	9.72		
	Nanjappa Layout 8th Cross		2	110.00	0.45	0.10	9.90		
	Nanjappa Layout 7th Cross		2	108.00	0.45	0.10	9.72		
							732.73	5879.98	**4308408.00**
7	Providing granite slabs of selected quality roughly dressed having a size of 10 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete **Page No. 27 / Item No. 5.31.2 PWD SR 2018-19**	Sqm							
	For Covering Slab								
	BEL Layout 2nd Block 2nd Cross Majathindi Road		2	133.00		0.90	239.40		
	BEL Layout 2nd Block 2nd Cross		2	187.00		0.90	336.60		
	BEL Layout 2nd Block 4th Cross		2	120.00		0.90	216.00		
	BEL Layout 2nd Block 5th Cross		2	175.00		0.90	315.00		
	BEL Layout 2nd Block 4th Main Balance		2	145.00		0.90	261.00		
	BEL Layout 2nd Block 1st Main		2	225.00		0.90	405.00		
	BEL Layout 2nd Block 2nd Main		2	220.00		0.90	396.00		
	BEL Layout 2nd Block 3rd Main		2	230.00		0.90	414.00		
	BEL Layout 2nd Block 4th Main		2	123.00		0.90	221.40		
	Venkatagiriyappa Layout 3rd Cross		2	150.00		0.90	270.00		
	Venkatagiriyappa Layout 4th Cross		2	145.00		0.90	261.00		
			2	50.00		0.90	90.00		
	Venkatagiriyappa Layout 5th Cross		2	137.00		0.90	246.60		
			2	48.00		0.90	86.40		
	Cross Road		1	17.00		0.90	15.30		
			1	26.00		0.90	23.40		
	Nanjappa Layout 12th Cross		2	108.00		0.90	194.40		
	Nanjappa Layout 11th Cross		2	107.00		0.90	192.60		
	Nanjappa Layout 10th Cross		2	110.00		0.90	198.00		
	Nanjappa Layout 9th Cross		2	108.00		0.90	194.40		
	Nanjappa Layout 8th Cross		2	110.00		0.90	198.00		
	Nanjappa Layout 7th Cross		2	30.00		0.90	54.00		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
				2704.00			**4828.50**	1015.06	**4901217.00**
8	KSRB 5-9 : Providing chamfering edges to stone slab 2.5 cms. wide as per specifications. (only chamfered length shall be recorded) KBS 5.1.13 **Page No. 26 / Item No. 5.22, PWD SR 2018-19**	m							
			9013	3.00			**27040.00**	64.49	**1743810.00**
	EIRL								
E1	Providing **precast slab of 100mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc.,complete as per the direction of engineer in charge - (Data rate Approved). **As per PWD SR 2018-19**	Sqm							
	Bottom Concrete								
	BEL Quoters		2	630.00	0.90		1134.00		
	Basic Rate	2337.00					**1134.00**	2453.62	**2782401.00**
	Tender Premium @ 4.99%	**116.62**							
		2453.62							
E2	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete **Page No. 27 / Item No. 5.30 PWD SR 2018-19**	No							
			2	630.00			2800		
				0.45					
	Basic Rate	408.00					**2800**	454.06	**1271370.00**
	Area Weightage @ 6%	24.48							
	Total	**432.48**							
	Tender Premium @ 4.99%	**21.58**							
		454.06							
E3	KSRB 15-19.1 : Providing and applying ready mix priming coat **over concrete** / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. **Page No. 124 / Item No. Item No. 15.80, PWD SR 2018-19**	Sqm							
			2	630.00		0.40	504.00		
	Basic Rate	37.00					**504.00**	41.18	**20753.00**
	Area Weightage @ 6%	2.22							
	Total	**39.22**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Tender Premium @ 4.99%	**1.96**							
		41.18							
E4	KSRB 15-19.2 : Providing and applying spray painting in two coats (excluding priming coat) over concrete / masonry / asbestos cement sheet / plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications.**Page No. 124 / Item No. Item No. 15.81, PWD SR 2018-19**	Sqm							
			Qty Vide Item No. E3				**504.00**	94.60	**47676.00**
	Basic Rate	85.00							
	Area Weightage @ 6%	5.10							
	Total	**90.10**							
	Tender Premium @ 4.99%	**4.50**							
		94.60							
E5	Providing and instalation at site of works P.V.C.Pipes including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc., **Page No.61 item No. 10.01.2 b PRED SR 2019-20.**	Rmtr							
	75 mm dia 6 KSC PVC pipe		480	0.30			144.00		
							144.00	217.33	**31295.00**
	Charges Basic Rate	207.00							
	Tender Premium @ 4.99%	**10.33**							
		217.33							
	Total								27870908.00
	Rupees Two Crore Seventy Eight Lakh(s) Seventy Thousand Nine Hundred Eight Only								

Technical Sanction
Accorded by RL 248684/11.08
Head of ... P-3296
CER NO : 24 Dt: 24.02.2

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2018-19 +/- Tender Premium.
3 This work included under P-3297 14th Finance Commission Grants.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 10

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division